

SAFETY DATA SHEET
POLIMALL YELLOW

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1. IDENTIFICATION

PRODUCT NAME : POLIMALL YELLOW

COMPANY IDENTIFICATION

Name of company : KOYO-SHA CO., LTD.

Address : No. 1, AZA-SHIOZAWA, TAISHIN-NAKASHINJO, SHIRAKAWA-SHI,
FUKUSHIMA-KEN 969-0307 JAPAN

Name of section : QUALITY ASSURANCE SECTION OF TECHNICAL DEVELOPMENT DIVISION

Telephone number : 0248-46-2891


2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS

Explosives :	Not applicable
Flammable gases :	Not applicable
Flammable aerosols :	Not applicable
Oxidizing gases :	Not applicable
Gases under pressure :	Not applicable
Flammable liquids :	Not applicable
Flammable solids :	Classification not possible
Self-reactive substances and mixtures :	Not applicable
Pyrophoric liquids :	Not applicable
Pyrophoric solids :	Not classified
Self-heating substances and mixtures :	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases :	Not classified
Oxidizing liquids :	Not applicable
Oxidizing solids :	Classification not possible
Organic peroxides :	Classification not possible
Corrosive to metals :	Classification not possible
Desensitized explosives :	Classification not possible
Acute toxicity - oral :	Classification not possible
Acute toxicity - skin :	Classification not possible
Acute toxicity - inhalation: gas :	Not applicable
Acute toxicity - inhalation: vapour :	Classification not possible
Acute toxicity - inhalation: dust :	Classification not possible
Acute toxicity - inhalation: mist :	Not applicable
Skin corrosion/irritation :	Classification not possible
Serious eye damage/eye irritation :	Classification not possible
Respiratory sensitization :	Classification not possible
Skin sensitization :	Category 1
Germ cell mutagenicity :	Classification not possible
Carcinogenicity :	Classification not possible
Reproductive toxicity :	Classification not possible
Specific target organ systemic toxicity - Single exposure :	Category 3 - Respiratory tract irritation
Specific target organ systemic toxicity - Repeated exposure :	Category 1 - Lung, Central nervous system

HEALTH HAZARDS

ENVIRONMENTAL HAZARDS	Aspiration hazard :	Classification not possible
	Short-term (acute) hazardous to the aquatic environment :	Classification not possible
	Long-term (chronic) hazardous to the aquatic environment :	Classification not possible
	Hazardous to the ozone layer	Classification not possible
GHS LABEL ELEMENTS		
PICTOGRAMS/SYMBOLS :		
		
SIGNAL WORD :	DANGER	
HAZARD STATEMENTS :	May cause an allergic skin reaction	
	May cause respiratory irritation	
	Causes damage to lung, central nervous system through prolonged or repeated exposure	
PRECAUTIONARY STATEMENTS		
Prevention :	Do not eat, drink or smoke when using this product.	
	Use only outdoors or in well-ventilated area.	
	Do not breathe dust.	
	Wear protective eyeglasses as needed.	
	Wear respiratory protection/face protection/protective gloves/goggles and clothing.	
	Wash hands thoroughly after handling.	
Response :	If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.	
	If you feel unwell, get medical attention.	
Storage :	Store in a well-ventilated and cool place.	
Disposal :	Dispose of contents/container in accordance with local/regional/national/international regulations.	
	Dispose of cleaning solution after making harmless.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture :	Mixture	
Chemical name	CAS No.	Concentration [%]
Cotton cloth	No data	-
Aluminium oxide (Al ₂ O ₃)	1344-28-1	25-40
Mineral oil	Non-disclosure	1-3
Rosin	8050-09-7	<1
Triethanolamine	102-71-6	<1
Contains fatty acids and others.		

4. FIRST-AID MEASURES

Inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, get medical advice/attention.
Skin contact :	Remove/take off immediately all contaminated clothing.
	Rinse skin immediately with water/shower.
	Wash contaminated clothing before reuse.
Eye contact :	Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	Get medical attention/advice.
Ingestion :	Rinse mouth immediately with water. Call a doctor immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :	In case of initial fires, use fire-extinguishing powder/foam, carbon dioxide or dry sand. In case of larger fires, asphyxiating a fire using fire-fighting foam and others is effective.
Unsuitable extinguishing media :	In case of oil/grease/fat fires, do not use water as an extinguisher, as this will spread the fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :	Evacuate nonessential personnel. Authorized personnel only. Wear proper protective equipment (gloves/goggles/clothing and high boots).
Environmental precautions :	Caution do not to discharge into rivers or seas.
Method and materials for contaminant and cleaning up :	Collect spilled material into empty containers.

7. HANDLING AND STORAGE**HANDLING**

Technical measure	According to " 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ", put facility measures into operation and wear protective equipment.
Local-ventilation/Whole ventilation :	According to " 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ", put facility measures into operation (Local-ventilation/Whole ventilation).
Note :	Use only outdoors or in well-ventilated area. Do not contact/breathe/swallow. Do not breathe powder dust. Wash hands thoroughly after handling.

STORAGE

Technical measure :	Install the equipment of lighting, ventilation and necessary daylighting to handle.
Incompatible substances :	Reference to " 10. STABILITY AND REACTIVITY ".
Storage conditions :	Keep away from high heat and store in a well ventilated place. Keep cool.
Packaging materials :	Use a break-proof package.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Facility measures :	Ventilate to avoid inhalation of dust.
Personal protective equipment	
Respiratory protection :	Wear appropriate respiratory protective equipment, dust-proof mask and others.
Hand protection :	Wear appropriate protective gloves, leather gloves and others.
Eye/face protection :	Wear protective glasses (ordinary glasses type/goggles type and others).
Skin and body protection :	Wear protective clothing and safety shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, physical state :	Solid
Color :	Pale yellow
Odor :	Slight odor
Melting point/freezing point :	No data
Boiling point or initial boiling point and boiling range :	No data
Flammability :	No data
Lower and upper explosion limit/flammability limit :	No data
Flash point :	No data

Auto-ignition temperature :	No data
Decomposition temperature :	No data
pH :	No data
Kinematic viscosity :	No data
Solubility :	Soluble in water only auxiliary agent
Partition coefficient <i>n</i> -octanol/water :	No data
Vapour pressure :	No data
Density/relative density :	No data
Relative vapour density :	No data
Particle characteristics :	No data

10. STABILITY AND REACTIVITY

Stability/Reactivity :	Stable under normal condition (room temperature).
Possibility of hazardous reactions :	Almost never
Condition to be avoided :	Fire, direct sunlight.
Incompatible materials :	Do not store together with acid/alkaline materials, oxidizing/reducing agent.
Hazardous decomposition products :	Nothing

11. TOXICOLOGICAL INFORMATION

Acute toxicity :	Aluminium oxide LD ₅₀ >5000 mg/kg (rat, oral) ¹⁾ Mineral oil LD ₅₀ >5000 mg/kg (estimated value) ¹⁾ Rosin LD ₅₀ 7800 mg/kg (rat, oral) ²⁾ LD ₅₀ >2500 mg/kg (rabbit, skin) ²⁾ LD ₅₀ 2.3 mg/L (rat, inhalation: dust) ²⁾ Triethanolamine LD ₅₀ 4200-11300 mg/kg (rat, oral) ³⁾ LD ₅₀ 4190 mg/kg (rabbit, skin) ³⁾ Fatty acids LD _{LO} 4640 mg/kg (rat)
Skin corrosion/irritation :	No data
Serious eye damage/eye irritation :	No data
Respiratory sensitization :	No data
Skin sensitization :	Rosin may cause an allergic skin reaction ^{4) 5)} . There is a report of positive results in a guinea pig maximization test. There are case reports of allergic contact dermatitis in humans attributed to the substance or products containing the substance. The substance was classified into R43 in EU classification, therefore, Rosin was classified into Category 1 ⁶⁾ . Triethanolamine is classified as Category 1 to cause allergic dermatitis by contact ³⁾ . This product was classified into Category 1.
Germ cell mutagenicity :	No data
Carcinogenicity :	No data
Reproductive toxicity :	No data
Specific target organ systemic toxicity - Single exposure :	Aluminium oxide is classified into Category 3 (Respiratory tract irritation) based on enrollment "upper respiratory tract irritation" ⁷⁾ . This product was classified into Category 3.
Specific target organ systemic toxicity - Repeated exposure :	Aluminium oxide was classified into Category 1 according the statement that by occupational exposure of aluminas, pulmonary fibrosis was occurred (Category 1) ⁸⁾ . Aluminium oxide is classified as Category 1 (Inhalation; Central nervous system) based on enrollment "Aluminium oxide have the potential to impact the central nervous system" ⁷⁾ . This product was classified into Category 1.
Aspiration hazard :	No data

12. ECOLOGICAL INFORMATION

Ecotoxicity :	No data
Persistence/Degradability :	No data
Bioaccumulation potential :	No data
Mobility in soil :	No data
Hazard to the ozone layer :	No data

13. DISPOSAL CONSIDERATIONS

The remainder waste :	In case of the disposal, comply with local government codes and related regulations.
Contaminated container and packing :	Recycle containers after washing, or dispose according to local government codes and related regulations. In case of disposal of the container, remove the content.

14. TRANSPORT INFORMATION

International regulations	
IMDG Code :	Not restricted
IATA Dangerous Goods Regulations :	Not restricted
Domestic regulations :	
Fire Service Act Dangerous Goods :	Not restricted
Fire Service Act Designated	Not restricted
Combustibles :	
Safety measure and condition for transport :	Check the container for damage, corrode and leak before transport. Load the cargo without fall, drop and damage. Prevent the cargo from unpling for sure. Handle the shipping case with care and do not make an impact. Do not handle shipping case roughly, for example, collision, drag, etc.

15. REGULATORY INFORMATION

Aluminium oxide :	Industrial Safety and Health Act; Notifiable hazardous substance, 189 Aluminium oxide (Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Attached Table 9)
Mineral oil :	Industrial Safety and Health Act; Notifiable hazardous substance, 168 Mineral oil (Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Attached Table 9)
Rosin :	Industrial Safety and Health Act; Notifiable hazardous substance, 632 Rosin (Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Attached Table 9)
Triethanolamine :	Industrial Safety and Health Act; Notifiable hazardous substance, 381 Triethanolamine (Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Attached Table 9)
Other regulations for foreign countries:	Regulations in "SDS" are Japanese ones. Regulatory information with regards to this preparation in your country or region should be examined by your own responsibility.

16. OTHER INFORMATION

REFERENCES :

- 1) IUCLID (2000)
- 2) Akzo Coatings Inc. "Refined Gum Rosin" MATERIAL SAFETY DATA (1990)
- 3) Safety Data Sheet (each raw material manufacturer)
- 4) Journal of Occupational Health (Japanese Society for Occupational Health) Vol. 40
- 5) 1999 TLV and BEIs (ACGIH)
- 6) Japan Industrial Safety & Health association (JISHA), Japan Advanced Information center of Safety and Health
- 7) ICSC (2000)
- 8) EHC (1997)

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The information contained herein is, to the best of KOYO-SHA's knowledge and belief, accurate and reliable as of the date issued. Please make sure to be careful in handling it.

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions.

We reserve the right to revise SDS periodically as new information become available.